-Standard Valves-

4069-A VALVE

PENTODE.

SPECIFICATION.

Cathode.

Thoriated tungsten filament. Constant voltage type.

Base.

American Giant 5-pin.

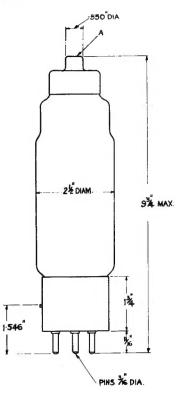
Dimensions.

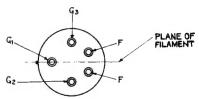
Max. overall length $9\frac{3}{4}''$ (24·7 cms.) Bulb diameter $2\frac{1}{2}''$ (6·4 cms.) Anode cap diameter 0.55'' (1·4 cms.) Net weight 0.75 lbs. (340 gms.)

Constants.

Filament voltage 10 volts Nominal filament current 5.4 amps. *Mutual conductance 4.5 mA. per volt Grid–anode capacity 0.02 $\mu\mu$ F. Input capacity 15.5 $\mu\mu$ F. Output capacity 5.5 $\mu\mu$ F.

* at Vp = 2,000 volts, $Vg_2 = 400$ volts, $Vg_1 = -20$ volts.





LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage2,000 voltsMaximum direct screen voltage400 voltsMaximum direct suppressor voltage45 voltsMaximum anode dissipation100 wattsMaximum screen dissipation35 wattsMaximum direct control grid current25 mA.Maximum RF control grid current8 amps.

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TYPICAL OPERATING CONDITIONS.

Class B Telephony		
Direct anode voltage	2,000 volts	
Direct screen voltage Direct control grid voltage	400 volts —38 volts	
Direct suppressor voltage	0 volts	
Peak RF input	90 volts	
Anode current	75 mA.	
Screen current	30 mA.	
Screen resistor	55,000 ohms	
Driving power	0.9 watts	
Peak output	200 watts	
Carrier output	50 watts	

RADIO FREQUENCY OPERATION.

Class C Telephony — Control grid modulated		
Direct anode voltage	2,000 volts	
Direct screen voltage	400 volts	
Direct control grid voltage	—140 volts	
Direct suppressor voltage	0 volts	
Anode current	85 mA.	
Screen current	20 mA.	
Screen resistor	80,000 ohms	
Control grid current	2·8 mA.	
Peak RF input voltage (Vg I)	170 volts	
Peak AF input voltage (Vg)	60 volts	
AF power	I-0 watts	
Peak RF input power	3.0 watts	
Peak output	280 watts	
Carrier output	70 watts	

Class C Telegraphy		
Direct anode voltage Direct screen voltage Direct control grid voltage	2,000 volts 400 volts —100 volts	
Direct suppressor voltage Anode current Gereen current	0 volts I20 mA.	
Screen resistor Control grid current	75 mA. 21,000 ohms 10 mA.	
Peak RF input volts RF input power Output	180 volts 1.8 watts 160 watts	

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	Suppressor	Screen
Direct anode voltage	2,000	2,000 volts
Direct screen voltage	400	400 volts
Direct control grid voltage	—100	—100 volts
Direct suppressor voltage	50	45 volts
Peak AF suppressor voltage	90	90 volts
Peak AF screen voltage	0	200 volts
Peak RF input	180	180 volts
Anode current	80	85 mA.
Screen current	85	85 mA.
Screen resistor	20,000	20,000 ohms.
Control grid current	11	II mA.
RF input power	2.7	2.0 watts
AF input	1.2	6.2 watts
Peak output	240	280 watts
Carrier output	60	70 watts

